

NONAQUEOUS ELECTROLYTIC SOLUTION AND LITHIUM SECONDARY BATTERY USING IT**Publication number:** JP2002124297**Publication date:** 2002-04-26**Inventor:** HAMAMOTO SHUNICHI; ABE KOJI; YUGUCHI MOTOI;
USHIGOE YOSHIHIRO; MATSUMORI YASUO**Applicant:** UBE INDUSTRIES**Classification:****- international:** *H01M10/40; H01M10/36; (IPC1-7): H01M10/40***- european:****Application number:** JP20000313549 20001013**Priority number(s):** JP20000313549 20001013**Report a data error here****Abstract of JP2002124297**

PROBLEM TO BE SOLVED: To provide a lithium secondary battery having excellent battery characteristics such as a cycle characteristic, electric capacity and a shelf life characteristic of the battery and having good wettability. **SOLUTION:** This lithium secondary battery is characterized in that in an electrolytic solution prepared by dissolving an electrolyte in a nonaqueous solvent, at least one kind out of alkyne derivatives expressed by following general formula (I) is contained in the electrolytic solution. In the formula, R1, R2 and R3 are each independently a 1-12C alkyl group, a 3-6C cycloalkyl group, a 6-12C aryl group, a 7-12C aralkyl group or a hydrogen atom. R2 and R3 may form 3-6C cycloalkyl group by being mutually bonded. Here, (n) is an integer of 1 or 2. In the formula, X is a sulfoxide group, a sulfo group or an oxalyl group, Y is a 1-12C alkyl group, alkenyl group or alkynyl group, a 3-6C cycloalkyl group, a 6-12C aryl group or a 7-12C aralkyl group.

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